

Lab Report / Research

Name: 3rd

Date: _____

Problem: (Record in question form) Which brand of pop will make the highest fizz when it is mixed with Mentos?

Hypothesis: (Your guess / prediction / Why?) I think (Grape Crush) will make the highest fizz when mixed with mentos because (grapes and mentos cause a chemical reaction and cause fizz.)

~~Research about Topic:~~ PROCEDURE

1. Gather all supplies and find a level spot by the outside wall of the school. Measure the height of bricks.
2. Place the pop holder on a level spot against the wall and put a 2L bottle in holder.
3. Open Mentos and put 5 Mentos in Geysertube
-make sure the pin is in place in the tube.
4. Open pop and screw the tube on to the top of pop bottle. Pull the pin and step away.
5. Observe the spray and measure its height
6. Record measurements
7. Repeat with a different pop

Procedure (Use Past Tense)	What's the Independent Variable? (The variable you can control to manipulate / change) Type of pop
What's the Dependent Variable? (What you measure in the experiment) height of spray	Control? <u>Unchanging Standard</u> (What you can compare to) Number of mentos Kind of mentos Steps/Directions Location of Experiment Size/Amount of pop/bottle Type/method of measuring Geyser tube Pop Holder Temperature of pop

3 Observations from Data No cap on tube

~~Results / Data:~~ _____

1. _____

2. _____

3. _____

Name of pop	# of mentos	height of can	amount left
Pepsi	5	22 in	1250 ml
Diet Pepsi	5	52 in	900 ml
Sunkist	5	10 in	1400 ml
Canada Dry	5	14 in	1300 ml
Diet Canada Dry	5	50 in	860 ml
Diet Coke	5	39 in	910 ml
Dr. Pepper	5	45 in	875 ml
Diet Dr. Pepper	5	75 in	760 ml
Sunkist	5	11 in	1410 ml
Mt Dew	5	10 in	1510 ml
Diet Mt Dew	- 5	14 in	1350 ml
Diet Coke	5	41 in	945 ml
Rootbeer	5	41 in 21 in	1100 ml
Diet Rootbeer	5	55 in	900 ml
Sprite	5	20 in	1200 ml
Sprite Zero	5	25 in	1100 ml
Sunkist	5	12 in	1500 ml
Coke	5	30 in	1050 ml
Diet Coke	5	48 in	900 ml
Cherry Coke	5	28 in	1000 ml
Coke	5	33 in	1000 ml

Conclusion: Was your hypothesis supported by data? Why? Include details to explain/defend your answer.

My hypothesis: that Grape Crush will make the highest fizz when mixed with mentos because grapes ^{and mentos} react to cause a chemical reaction and fizz was incorrect. All of the different brands of pop created a fizz when combined with mentos, not just grape so it would appear that it is not the grape ingredient that causes fizzing. Also, the grape pop did not fizz the highest. Diet Dr. Pepper created the highest fizz. ~~Alka Seltzer~~